1. Demographic Information

Background:

In early 2020 the Ohio Articulation and Transfer Network (OATN) held discussions with the Ohio Guaranteed Transfer Pathway (OGTP) faculty panels in the areas within Health Sciences to explore transfer pathways. During discussion, the OGTP Health Sciences panels recommended the creation of a TAG in the area of Anatomy and Physiology in order to better facilitate transfer for these commonly required courses. The Ohio Articulation and Transfer Network (OATN) sent out a call for statewide nominations to assist with this work. An Anatomy and Physiology TAG writing panel was formulated with content matter experts to meet and discuss TAG creation. Initial meetings led to the dissemination of statewide research that identify department courses, pre-requisites, lab components, and institutional course credit hours.

After some discussion, the writing panel has recommended core competencies for the TAG area of Anatomy and Physiology I & II (full-year sequence) with lab. The proposed course sequence will require a laboratory component and ranges in 8-10 credit hours.

What we need from you:

Please arrange to have the appropriate faculty at your institution complete the survey as soon as possible but no later than Friday, February 19, 2021. We are collecting only one representative response per institution.

The survey asks your institution if they agree or disagree with proposed Anatomy and Physiology I & II (full-year sequence) with lab core competencies. You will find a copy of the proposed TAG course core competencies attached as reference.

Thank you in advance for your assistance. If you have any questions, contact Jessi Spencer, Director for Policy, Budget, and Constituent Relations, at 614-728-4706 or jspencer@highered.ohio.gov or Candice Grant, Director for Ohio Guaranteed Transfer Pathways, at 614-466-4136 or cgrant@highered.ohio.gov.

* 1. Demographic Information about the Person Completing this Survey Name Institution Department Title Email Phone * 2. Please Indicate the Type of Institution that you represent Two-Year Institution Four-Year Institution

2. Anatomy and Physiolo	gy I & II (Full-Year S	equence) with Lab	
1. Do you agree with the prop	oosed credit hour range	e?	
	Yes, I agree		No, I do not agree
8-10 semester hours			\circ
2. Do you agree with the prop	posed pre-requisite?		
	Yes, I agree		No, I do not agree
High School Chemistry or Biology or Equivalent or Background in Science Necessary as Determined by Institution	0		
3. Do you agree with the prop		?	
	Yes		No
3 hours lab per week	\bigcirc		
* 4. Do you agree with Core (Competency #1?	Yes, should be non-essential	No
Body Plan & Organization*(Essential)			
a. Anatomical position b. Body planes and			
sections c. Body cavities and			
regions d. Directional terms e. Basic terminology f. Levels of organization g. Survey of body systems			

* 5. Do you agree with 0	Core Competency #2?		
	Yes, should be essential	Yes, should be non-essential	No
2. Homeostasis* (Essential)			
a. Definition b. General Types of homeostatic mechanisms			
* 6. Do you agree with 0	Core Competency #3?		
	Yes, should be essential	Yes, should be non-essential	No
3. Chemistry & Cell Biology (Note: This core concept is provided for A&P courses that do not have a prerequisite (or prerequisites) class which includes both chemistry and cell biology. Content covered by required prerequisite courses does not need to be repeated in Anatomy & Physiology)* (Essential)			
 a. Atoms and molecules b. Chemical bonding c. Inorganic compounds and solutions d. Organic compounds e. Energy transfer using ATP f. General organization of a cell 			
g. Cellular membrane structure and function h. Mechanisms for movement of materials across plasma (cell) membranes i. Membrane potential j. Organelles k. Protein synthesis l. Cellular respiration (introduction) m. Cell cycle			

Overview of histology and tissue types Microscopic anatomy, reaction, and functional colles of epithelial tissue Microscopic anatomy, location, and location, and location, and location, and location, and location, and location, anatomy, location, and location, and location, anatomy, location, and location, anatomy, location, and location, anatomy, location, and location, anatomy,	. Histology* (Essential) . Overview of histology nd tissue types . Microscopic anatomy, ccation, and functional ales of epithelial tissue . Microscopic natomy, location, and unctional roles of omnective tissue . Microscopic natomy, location, and unctional roles of uscle tissue . Microscopic natomy, location, and unctional roles of suscle tissue . Microscopic natomy, location, and unctional roles of ervous tissue Membranes mucous, serous, utaneous, and ynovial) . Intercellular onnections (cell unctions) . Tissue growth, notification, and repair		Yes, should be essential	Yes, should be non-essential	No
Microscopic natomy, location, and unctional roles of nuscle tissue Microscopic natomy, location, and unctional roles of ervous tissue Membranes nucous, serous, utaneous, and ynovial) Intercellular onnections (cell unctions) Tissue growth,	. Microscopic natomy, location, and unctional roles of nuscle tissue . Microscopic natomy, location, and unctional roles of ervous tissue Membranes nucous, serous, utaneous, and ynovial) . Intercellular onnections (cell unctions) . Tissue growth,	. Overview of histology and tissue types . Microscopic anatomy, ocation, and functional oles of epithelial tissue . Microscopic anatomy, location, and unctional roles of			
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8. Do you agree with Core	e Competency #5?		
	Yes, should be essential	Yes, should be non-essential	No
5. Integumentary System* (Essential) a. General composition and functions of the integumentary system and the subcutaneous layer (hypodermis or superficial fascia) b. Gross and microscopic anatomy of the integument and subcutaneous later (hypodermis and superficial fascia) c. Roles of specific tissue layers of skin and the subcutaneous later (hypodermis and superficial fascia) d. Structure and function of epidermal derivatives (accessory structures of the integument) e. Application of homeostatic mechanisms f. Predictions related to disruption of homeostasis			

S. Skeletal System & Articulations* (Essential) a. General functions of the skeletal system b. Structural components — microscopic anatomy c. Structural components — gross anatomy d. Physiology of embryonic bone comation (ossification or betegenesis) e. Physiology of bone, growth, repair, and remodeling f. Organization of the skeletal system g. Bones of the skeleton f. Classification, structure, and function of coints (articulations) f. Application of mechanisms f. Predictions related to disruption of disruption o	Articulations* (Essential) a. General functions of the skeletal system b. Structural components — microscopic anatomy c. Structural components — gross anatomy d. Physiology of bone compation (ossification or osteogenesis) e. Physiology of bone, growth, repair, and emodeling Organization of the skeletal system g. Bones of the skeleton b. Classification, currently and function of coints (articulations) Application of compositatic mechanisms Predictions related to disruption of clisticular of clisticular constructions and components are constructed to disruption of clisticular constructions and constructions are constructed to disruption of clisticular constructions are constructed to clisticular constructed constructed to clisticular constructed constructe		Yes, should be essential	Yes, should be non-essential	No
ormation (ossification or osteogenesis) a. Physiology of bone, growth, repair, and remodeling b. Organization of the skeletal system g. Bones of the skeleton c. Classification, structure, and function of coints (articulations) Application of nomeostatic mechanisms Predictions related to	ormation (ossification or osteogenesis) a. Physiology of bone, growth, repair, and emodeling . Organization of the skeletal system g. Bones of the skeleton a. Classification, structure, and function of coints (articulations) . Application of comeostatic mechanisms . Predictions related to disruption of disruption of coints (articulations)	Articulations* (Essential) a. General functions of the skeletal system b. Structural components – microscopic anatomy c. Structural components – gross anatomy d. Physiology of			
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	Yes, should be essential	Yes, should be non-essential	No
7. Muscular System*			
(Essential)			
a. General functions of			
muscle tissue			
b. Identification, general			
location, and			
comparative			
characteristics of			
skeletal, smooth, and			
cardiac muscle tissue			
c. Detailed gross and			
microscopic anatomy of			
skeletal muscle			
d. Physiology of skeletal			
muscle contraction and			
relaxation			
e. Skeletal muscle			
metabolism			
f. Principles and types			
of whole muscle			
contraction			
g. Nomenclature of skeletal muscles			
h. Location, general attachments, and			
actions of the major			
skeletal muscles			
i. Groups actions of			
skeletal muscles			
j. Lever systems			
k. Smooth muscle			
I. Application of			
homeostatic			
mechanisms			
m. Predictions related			
to disruption of			
homeostasis			

11. Do you agree with C	ore Competency #8?		
	Yes, should be essential	Yes, should be non-essential	No
8. Nervous System* (Essential)			
a. General functions of the nervous system b. Organization of the nervous system c. General anatomy of the nervous system d. Protective roles of cranial bones and vertebral column, meninges, and cerebrospinal fluid (CSF) e. Neurons f. Neuroglial (glial) cells g. Neurophysiology h. Neurotransmitters, neuromodulators, and synaptic transmission i. Integration of neural information j. Structural and functional organization of the brain			
k. Cranial nerves I. Structural and functional organization of the spinal cord m. Spinal nerves n. Reflexes and their roles in nervous system function o. Structure and function of sensory and motor pathways p. Autonomic nervous system (ANS) q. Application of homeostatic mechanisms r. Predictions related to disruption of homeostasis			

12. Do you agree with 0	Core Competency #9?		
	Yes, should be essential	Yes, should be non-essential	No
9. General & Special Senses* (Essential) a. Sensory receptors b. Tactile receptors c. Gross and microscopic anatomy of the eye d. Visual pathways e. Olfaction f. Gustation g. Gross and microscopic anatomy of the ear h. Auditory pathways i. Equilibrium j. Application of homeostatic mechanisms k. Predictions related to disruption of homeostasis			
13. Do you agree with 0	Core Competency #10? Yes, should be essential	Yes, should be non-essential	No
10. Endocrine System* (Essential) a. General functions of the endocrine system b. Chemical classification of hormones and mechanism of hormone actions at receptors c. Control of hormone secretion d. Endocrine control by the hypothalamus and pituitary gland e. Endocrine structures and their hormones f. Local chemical messengers g. Hormonal response to stress h. Application of homeostatic mechanisms i. Predictions related to disruption of homeostasis			

	Yes, should be essential	Yes, should be non-essential	No
11. Cardiovascular			
System* (Essential)			
a. General functions of			
the cardiovascular			
system			
b. Composition of blood			
c. Hematopoiesis (hemopoiesis)			
d. Hemostasis			
e. ABO and Rh blood			
grouping			
f. Gross and			
microscopic anatomy of			
the heart			
g. Physiology of cardiac muscle			
contraction			
h. Blood flow through			
heart			
i. Electrical conduction			
system of the heart and			
the electrocardiogram j. Cardiac cycle			
j. Cardiac cycle k. Regulation of cardia		_	
output (CO), stroke			
volume (SV0, and heart			
rate (HR)			
I. Anatomy and			
functional roles of the			
different types of blood vessels			
m. Systemic and			
pulmonary circuits			
(circulations)			
n. Fetal (prenatal)			
versus postnatal			
circulation o. Blood pressure and			
o. Blood pressure and its functional			
interrelationships with			
cardiac output (CO),			
peripheral resistance,			
and hemodynamics			
p. Application of homeostatic			
mechanisms			
q. Predictions related to			
disruption of			
homeostasis			

the lymphatic system b. Lymph and lymphatic vessels c. Lymphatic cells, sissues, and organs d. Introduction to nnate (nonspecific) and adaptive (specific) mmuner responses e. Innate (nonspecific) defenses f. Overview of adaptive (specific) mmunity g. Antigens and antigen processing n. Lymphocytes and their role in adaptive (specific, acquired) mmunity . Antibodies and their role in adaptive (specific) mmunity . Applied immunology k. Applied immunology k. Applieation of nomeostatic mechanisms
defenses f. Overview of adaptive (specific) mmunity g. Antigens and antigen processing h. Lymphocytes and their role in adaptive (specific, acquired) mmunity i. Antibodies and their role in adaptive (specific) mmunity i. Applied immunology k. Application of homeostatic mechanisms
defenses f. Overview of adaptive (specific) mmunity g. Antigens and antigen processing h. Lymphocytes and their role in adaptive (specific, acquired) mmunity i. Antibodies and their role in adaptive (specific) mmunity i. Applied immunology k. Application of homeostatic mechanisms
role in adaptive (specific) immunity j. Applied immunology k. Application of homeostatic mechanisms
i. Antibodies and their role in adaptive (specific) immunity j. Applied immunology k. Application of homeostatic mechanisms
mechanisms
to disruption of homeostasis

16. Do you agree with 0	Core Competency #13?		
	Yes, should be essential	Yes, should be non-essential	No
13, Respiratory System* (Essential) a. General functions of the respiratory system b. Gross and microscopic anatomy of the respiratory tract and related organs c. Mechanisms of pulmonary ventilation d. Pulmonary air volumes and capacities e. Mechanisms of gas exchange in the lungs and tissues f. Mechanisms of gas transport in the blood g. Control of pulmonary ventilation h. Application of homeostatic mechanisms i. Predictions related to homeostatic imbalance			
17. Do you agree with C	Core Competency #14?		

	Yes, should be essential	Yes, should be non-essential	No
14. Digestive system*			
Essential)			
a. Structure and			
functions of the digestive			
system			
o. General gross and			
microscopic anatomy of			
the gastrointestinal tract			
c. Peritoneum and			
mesenteries			
d. Oral cavity			
e. Anatomy of the			
pharynx			
f. Gross and			
microscopic anatomy of			
the esophagus			
g. Gross and			
microscopic anatomy of			
the stomach			
h. Gross and			
microscopic anatomy of			
the small intestine			
i. Gross and			
microscopic anatomy of			
the large intestine,			
rectum, and anal canal			
j. Gross and			
microscopic anatomy of			
the accessary digestive			
organs			
k. Motility in the			
gastrointestinal tract			
I. Physiology of			
digestion			
m. Processes of			
absorption			
n. Hormonal and neural			
regulation of digestive			
processes			
o. Application of			
homeostatic			
mechanisms			
p. Predictions related to			
homeostatic imbalance			

Coro Compotonov #1F2		
Sore Competency #15?		
Yes, should be essential	Yes, should be non-essential	No
Core Competency #16?	Ves should be non-assential	No
		Yes, should be non-essential Yes, should be non-essential Core Competency #16?

Acid-Base Balance* Essential) a. Body fluid compartments b. Regulation of body esmolarity c. Homeostasis of elood volume, blood eressure, and body esmolarity d. Potassium and	17. Fluid/Electrolytes & Acid-Base Balance* (Essential) a. Body fluid compartments b. Regulation of body osmolarity c. Homeostasis of blood volume, blood pressure, and body osmolarity d. Potassium and calcium homeostasis e. Acid-base homeostasis and buffer systems f. Integrated control of acid-base homeostasis
compartments D. Regulation of body Dismolarity Dismol	compartments b. Regulation of body osmolarity c. Homeostasis of blood volume, blood pressure, and body osmolarity d. Potassium and calcium homeostasis e. Acid-base homeostasis and buffer systems f. Integrated control of
e. Acid-base nomeostasis and buffer systems . Integrated control of	Journal of the control of the

	Yes, should be essential	Yes, should be non-essential	No
	res, should be essential	res, should be non-essential	INU
18. Reproductive			
System* (Essential)			
a. Over view of the media			
a. Overview of the male			
and female reproductive			
systems			
b. Gross and			
microscopic anatomy of			
the male reproductive			
system			
c. Gross and			
microscopic anatomy of			
the female reproductive			
system			
d. Spermatogenesis			
and spermiogenesis			
e. Oogenesis,			
folliculogenesis, and the			
ovarian cycle		<u> </u>	
f. Comparison of male			
and female			
gametogenesis			
g. Uterine (menstrual)			
cycle			
h. Lifespan changes			
within the male and			
female reproductive			
systems			
i. Fertilization and			
pregnancy			
j. Parturition (labor)			
k. Postpartum changes			
to the mother			
I. Predictions related to			
disruption of the			
reproductive system			
2. Do you agree with C	Core Competency #19?		
	Yes, should be essential	Yes, should be non-essential	No
10 Introduction to	res, should be essential	res, should be non essential	110
19. Introduction to			
Heredity			
a Genetic variability			
a. Genetic variability			
b. Gene expression and inheritance			
c. Genetic testing			

23. Do you agree with 0	Core Competency #20?		
	Yes, should be essential	Yes, should be non-essential	No
20. Embryology			
a. Timeline of human			
development			
b. Conception through week 2 (bilaminar			
germinal disc)			
c. Embryonic periodd. Fetal period			
24. Comments:			

3. Institutional Equivalent Course	
Please indicate your institutions proposed equivalent courses for Anatomy and Physiology I & II (full-y sequence) with lab:	ear

4. Ohio Guaranteed Transfer Pathways (OGTP)
* 1. If you agree with the proposed TAG core competencies in Anatomy and Physiology I & II (full-year sequence) with lab, do you also agree with incorporating the proposed core competencies within the Ohio Guaranteed Transfer Pathway (OGTP) of Health Sciences? Yes No
Other (please specify)

5. Survey Completion
Thank you for completing this survey!